## ABSTRACT

Provided is a method of producing an oxide superconducting film on a single-crystal substrate by depositing, on the single-crystal substrate, substances scattered from a raw material due to irradiation with laser beams according to a pulsed-laser deposition method, wherein the irradiation of the raw material is performed in a manner such that the repetition frequency of the pulse irradiation of the laser beams is divided into at least two steps. Thus, an oxide superconducting film having a high critical current density can be produced by the method.

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